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(21)Application number : 54-135792 (71)Applicant : RICOH CO LTD

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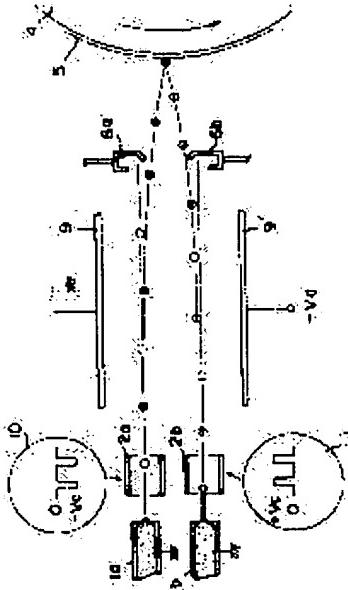
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## (54) INK JET RECORDER

### (57)Abstract:

PURPOSE: To obtain a mixed-color record image with high precision without requiring a delay circuit by a method wherein the ink droplets of different colors jetted from two ink jet heads are provided with opposite charges, they are deflected to opposite directions and printed at the same position of the recording paper.

CONSTITUTION: When a negative pulse signal (-)Vc is impressed on a charging electrode 2a in accordance with the image signal from a reader, the red ink jetted from the ink jet head 1a is positively charged within the charging electrode 2a and broken into positively charged ink droplets. Simultaneously, a positive pulse signal (+) Vc is impressed on a charging electrode 2b, and the black ink jetted from the ink jet head 1b becomes negatively charged ink droplets. The ink droplets of the opposite polarities are deflected to the opposite directions when they pass between a pair of deflecting electrodes 9, 9', and are concentratedly printed on a single point of the recording paper 5. The ink droplets which are not charged by the charging electrodes 2a, 2b travel straight and are trapped and recovered at 6a, 6b.



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